

# chris vandevelde

[chris@vandevel.de](mailto:chris@vandevel.de)  
226-606-1829

404 King St. W, Unit 111  
Kitchener, ON, Canada.  
N2G 4Z9

## summary of qualifications

- Recent programming experience in **Python**, **Javascript**, and **Java**, in **HTML/CSS**-based, **Android** and server environments.
- Strong interest in **Machine Intelligence**, **Natural-Language Processing**, and **Human-Computer Interaction**.
- Experience with the modern software development environment (version control, continuous integration, automated testing, etc.) in Mac, Linux, and Windows environments.
- Bilingual in **English** and **French**.

## experience

### primal

Software Developer

Kitchener, Ontario

March 2015 - Present (Full-Time)

- Contributed features and bug fixes on several **Scala** applications using **natural-language processing** and **machine-learning** techniques to measure document similarity, retrieve similar content, and delight the user with the experience.
- Collaborated with co-workers in an Agile programming environment with an emphasis on well-designed, peer-reviewed technical solutions, and fully-tested and thoroughly-reviewed code.

### trendradius

Software & Machine Learning Developer

Kitchener, Ontario

July 2014 - March 2015 (Full-Time)

- Developed on a web-based application using **Node.js**, **Express**, and **MongoDB**, a front-end Javascript application based on **Backbone.js** and **Twitter Bootstrap**, and a backend processing application written in Java.
- Created intelligent **sentiment analysis** tool in Java using OpenNLP and SentiWordNet, and **feed-forward neural network** to suggest matches across text-based content collections.
- Led efforts to ensure **Continuous Integration** and Deployment across products, set up Jenkins CI server and testing using Mocha.js and JUnit, consolidated build processes using NPM and Maven.

### triangulation device

App Developer and Programmer

Waterloo, Ontario

August 2014 - Present (Part-Time)

- Developed an **Android** client for a participatory sound art project, led by Professor Jessica Thompson, University of Waterloo.
- Used a variety of sensors (including microphone, GPS, accelerometer) to provide input to interface with an existing PureData backend.
- Created re-usable Bluetooth IPC layer and messaging library for data transfer between two Android clients.

## canopy labs

Data-Mining & Machine Learning Developer

Toronto, Ontario

April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

## square

Android Developer

San Francisco, California

Jan 2012 – April 2012 (Full Time)

Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's [Wallet](#) and [Register](#) **Android** applications.
- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks [Robolectric](#) and [Robotium](#).
- Worked primarily on OS X using **IntelliJ IDEA**, along with **git** and both **ant** and **maven** for building.

## education

### university of waterloo

Bachelor of Applied Sciences in Systems Design Engineering

Waterloo, Ontario

September 2008 – June 2014

#### Relevant Courses

- Pattern Recognition – Methods for classifying and interpreting measured data in groups.
- Machine Intelligence – Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems – Neural computation, modelling techniques.
- Control Systems – Controls engineering, systems theory, PID control and action.
- Data Structures & Algorithms – Data structure and algorithm characteristics and use.

### clarkson secondary school

Ontario Secondary School Diploma  
French Immersion Diploma

Mississauga, Ontario

June 2007

June 2007

## awards

### university of waterloo

President's Scholarship

Waterloo, Ontario

September 2008

### clarkson secondary school

Black Charger Award (800+ hours of extra-curricular involvement)  
Six Principal's Reception awards (awards for school commitment)

Mississauga, Ontario

September 2007

September 2006 – June 2008

## activities & interests

- Drummer, Various jazz bands & combos, Mississauga & Waterloo, since January 2003
- Interested in cognitive science, human-computer interaction, and artificial intelligence.  
Maintains an online notebook at <http://blog.chris.vandeval.de>